MECHANICAL DATA

Bulb	T-6 ½
Base	E9-1, Miniature Button 9-Pin
Outline	6–2
Basing	9A
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage[1]	12.6 Volts	
Heater Current	150 Ma	
Heater-Cathode Voltage (Design Center Values)		
Heater Positive with Respect to Cathode	30 Volts	Max.
Heater Negative with Respect to Cathode	30 Volts	Max.

DIRECT INTERELECTRODE CAPACITANCES

	Section 1[2]		Section 2	
	Shielded[3]	Unshielded	Shielded	Unshielded
Grid to Plate	1.5	1.5	1.5	1.5 μμf
Input: g to (h+k)	1.8	1.6	1.8	1.6 μμf
Output: p to (h+k)	2.0	0.4	2.0	0.32 μμf

RATINGS (Design Center Values)

Plate Voltage	30 Volts	Max.
Cathode Current	15 Ma	Max.
Grid Circuit Resistance		
Fixed Bias	0.25 Megohm	Max.
Cathode Bias	1.0 Megohm	Max.

CHARACTERISTICS AND TYPICAL OPERATION

Class A_1 Amplifier—Each Section

Plate Voltage	12.6 Volts
Grid Voltage	0 Volts
Plate Current	1.0 Ma
Transconductance	1600 μmhos
Amplification Factor	20
Plate Resistance (Approx.)	12,500 Ohms
Grid Voltage for Ib = 10 μa (Approx.)	–1.5 Volts

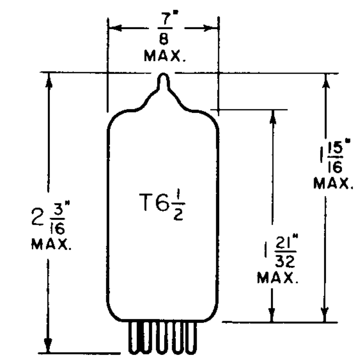
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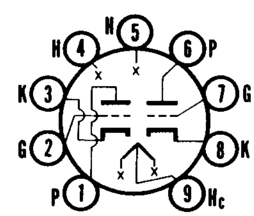
1. *This tube is intended for use in automobile radios operated from a nominal 12 volt battery. Design of the tube is such that the heater will operate satisfactorily over the range 10.0 volts to 15.9 volts, and that the maximum ratings provide a safety factor for the wide voltage variation encountered with this type of supply.*
2. *Section 1 connects to pins 6, 7 and 8. Section 2 connects to pins 1, 2 and 3.*
3. *External shield No. 315 connected to cathode of section under test.*

QUICK REFERENCE DATA

The Sylvania Type 12U7 is a general purpose, medium mu, dual triode, having separate cathodes for each section.

It is designed for operation where the heater and plate voltages are supplied directly from a 12 volt automotive storage battery.



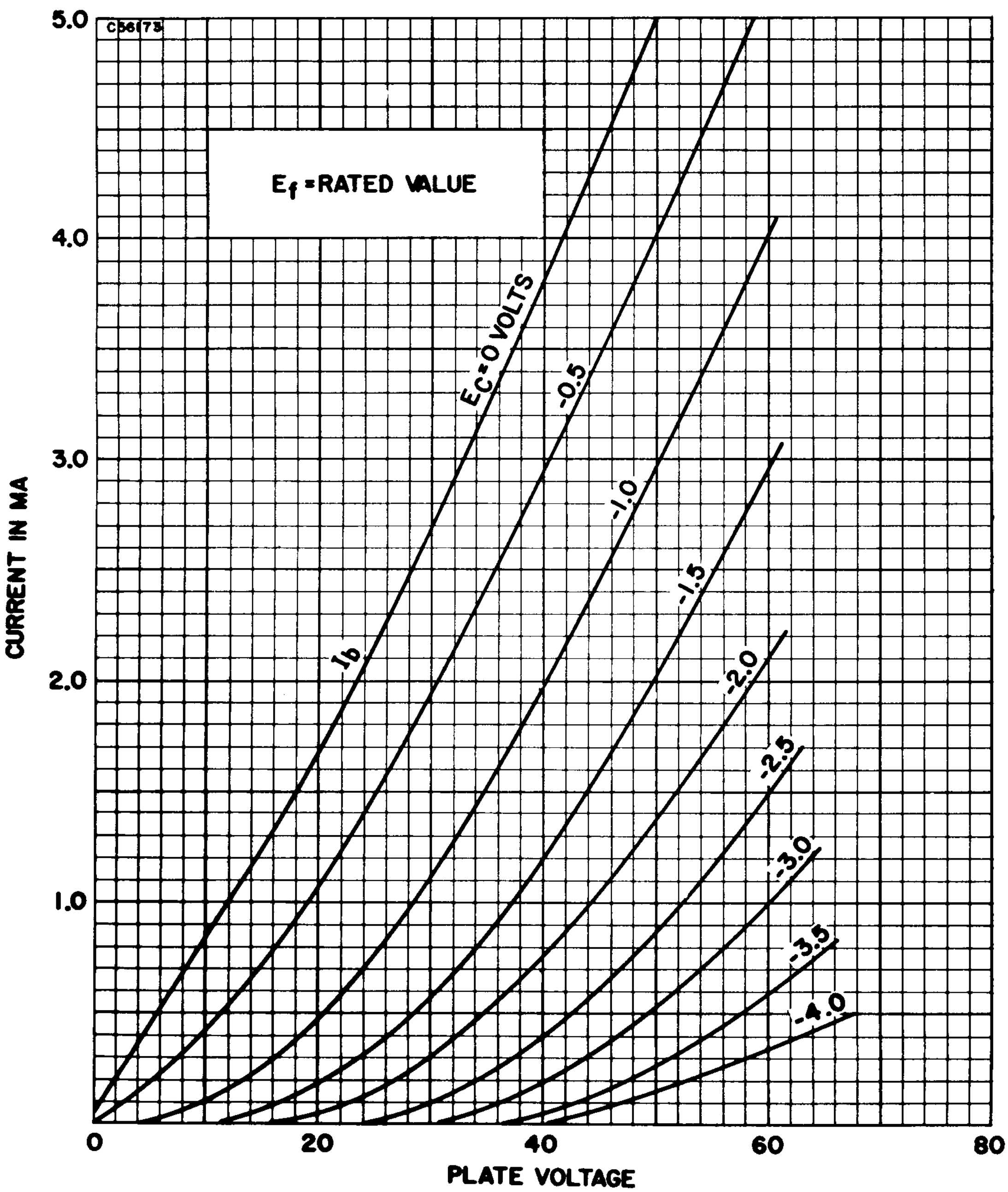


9 A

SYLVANIA ELECTRIC PRODUCTS INC.
RADIO TUBE DIVISION
EMPORIUM, PA.

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FEBRUARY, 1957

AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS

